Auto Quiz

Answers to Last Week's Questions.

be cut down. This is called a "leaner Gasoline supply exhausted. mixture." In warm weather a lean weather.

1. Warm weather has a very decided 2. When the motor starts and then bifect on a carburetor. Air and heat suddenly stops, any of the following are necessary for the carburetor to prop may be the cause: 1-Water in the gas grly vaporize the gasoline. When the air oline; 2-Disconnected electrical circuit

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About Studebaker Mechanical Features

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The real worth and ability of any car must, in the final analysis, be judged largely from the standpoint of the correctness of its chassis design and the construction.

The features to be sought in the modern automobile chassis design are simplicity, proper distribution of weight and accessibility, combined with strength and solidity of construc-

The Studebaker chasses have been designed throughout with these fundamental characteristics in view, and no effort or expense on the part of the Engineering Department has been spared to produce the best results.

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The Jackson Six Sport Model

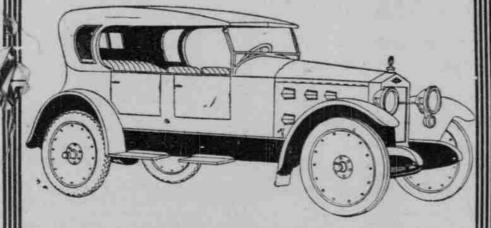
The beautiful Jackson Sport Car expresses in its own way the distinctive merits of factory practices which permit of a high degree of handiwork in the building of a motor car. Craftsmen long experienced and trained to Jackson standards have artfully fashioned this attractive model. The cleverness displayed in the individualistic harmony of appearance, from the hand built California top to the daring enameled steel disc wheels, deftly supplements mechanical worthiness in every unit of construction.

This policy of using handwork wherever it is superior to machine work-a practice unusual in these days of forced productionis still one of the distinctive features of Jackson standards. You will find it exemplified in the skillful balance of every unit of the chassis, and the expertness in which every part of the body is handmolded and fitted such careful and painstaking methods account for the characteristics of honesty and sturdiness which have marked every Jackson for over 16 years.

Arrange to inspect this irresistible Jackson Sport Car-ride in it. Its spirited lines and alluring combination of finish and appointments will fascinate; the responsiveness of the car under every whim of the driver will be a revelation.

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is warm the vaporization takes place 3-Timer trouble; 4-Loose electrical more quickly and with more efficiency, terminal; 5-Broken spark plug or wire, thus allowing the supply of gasoline to 6-A water leak into the cylinder; 7-

3. A common cause of mis-firing is mixture (which means less gasoline and an air leak through a worn valve guide more air) will give just as good results or carburetor manifield connection. One in the motor as a richer mixture in cold way of telling an air leak through a valve guide is that oil leaks out while the motor is in operation. A bad leak in the carburetor manifold connection will produce a hissing sound.

4. A motor can be prevented from everheating when driving in low gear for a long time by reducing the gasone mixture. Reduce the carburetor nixture as lean as possible for smooth unning in low gear. As a richer fuel nixture will cause more heat, the lean nixture will tend to overcome heating. It is also more possible to drive a car with a leaner mixture on low gear than

5. The Old Spanish Trail, now under transformation into a highway, will run from California to Florida, a distance

6. In refacing a cone clutch, the area f surface is determined by multiplying half the width of the face by the circumference of the inner edge and add to it the circumference of outer edge. One of the quickest ways of exhausting a storage battery is leakage of

urrent caused by the interior of the battery box or the batteries becoming vet. Be careful of your battery when ou wash your car. 8. Eight and twelve cylinder engines

have an arrangement of two water pumps in a single unit. In some sysems a single inlet is provided but usually there are two outlets.

9. A honeycomb type of radiator is made of a number of hexagonal tubes joined together in a way as to allow space between the tubes for the water. It is considered an expensive construc-

10. The following parts of a motor car should be oiled, greased or inspected for their need of lubricant every day: 1-Crankcase; steerink knuckle; 2-Steering cross rod: 3-All spring clips and spring connections; 4-The eccentric bushings; 5-Twist universal grease cup: 6-Brake lever connections. NEW QUESTIONS.

1. How can celluloid automobile windows be repaired at home, neatly, officiently and cheaply? 2. What are some things to observe

in cleaning a new car? 3. After inserting an inner tube in a casing, what important thing should be done before the tire is mounted on its

rim? 4. What is an emergency repair for

a broken spring? 5. What is the motor construction of some of the new modern racing cars? 6. In going down hill against com pression, does the resistance of compression produce the only braking effect? How can the sag in the top of a

car be straightened out? 8. What is the safest way to park a car on a grade? 9. What is the best way to park a

car in congested traffic alongside the curb when you have to get in a small space between two cars? 10. How can a car owner etch his initials or other mark on his car for identification in case of theft?

CANADA

Canada is now the second nation in the world in the manufacture of automobiles, number of cars owned and the per capita distribution.

The United States takes first rank,

with Great Britain second. Figures compiled by the Motor Bus nd Motorize the Farm Bureaus of the Goodyear Tire & Rubber company hows that one person in every fifteen in the United States owns an automobile, while one in every twenty-three is the percentage in Canada. In Great Britain but one person in every 268 was a car. The percentage in France s one to 102, one to 684 in Germany, one

tria, and one to 5,300 in Russia. The total number of cars registered n this country is approximately 7-100,000, in the Dominion 350,000, and in England 180,000. Canada showed increased registration in 1919 of 13 per cent. Ontario was the banner province, with a registration of 127,860 passenger cars and 11,42 Strucks. Saskatchewan, Alberta, Manitoba and Quebec rank in

to 1,000 in Italy, one to 2,700 in Aus-

the order named. Canada employs 15,000 workers in the automobile industry, which represents an investment of \$50,000,000. In 1919. 94,000 automobiles were manufactured in the Dominion, with a total sales for the year of approximately \$100,000.000. The annual wages of persons in the industry totals \$15,000,000.

Rural Canada owns more than half he cars operated in the Dominion, and in the prairie provinces the percentage It is estimated that the total Canadian

production of automobiles in 1926 will be increased 35 per cent over 1919.

Why They Spend

Observers are said to regard it as ignificant that the states which will pend most freely for better highways and which manufacturers depend upon to buy the most motor trucks in 1920 are states in which farming is the preiominant occupation.

It is estimated that Kansas, which will spend \$8,000,000 on road improvement, will buy 20,000 motor trucks this

Minnesota has a road building program calling for the expenditure of \$11,127,986. As an illustration of what the farmer in that state thinks of the motor truck a statement recently issued by a bank in Minneapolis might be cited, which is is said that "trucks in large numbers, intended for immediate use in marketing grains, are being sold to farmers." Elevator scales in many places are being remodeled to accommodate the growing fleet of farmers'

Iowa, potential buyer of many motor rucks, will spend \$20,498,534 on better

Lincoln Car In Production Soon. The vast plant of the Lincoln Motor company in Detroit is completed in all The Lelands, famous motor builders ,are rushing into production with one of the best equipped factories in the automotive field. No expense has been spared, it seems, to make the Lincoln live up to the name by which will be known the world over.

Race Driver Joins Cole Forces. Howard (Howdy) Wilcox, winner of he 500 mile Indianapolis race in 1919. has been appointed research engineer of the Cole Motor Car Company in In-

USED CAR SECRETS EXPOSED TO HELP

At this season of the year, and particularly at a time when new car production has been cut down considerably. there is greater activity in the used car field. Many thousands of prospective owners will need some advice on the purchase of a used car so as to be able to avoid buying a wreck with perfectly

It has been said that a used car is no better than the dealer or man who sells it, and there is a great deal of truth in this. In our larger cities the newspapers are filled with so-called blind advertisements of owners who "must get out of town," or which give some such excuse for selling. The buyer should be careful of the greater number of these because they may be simply poor propositions handled for the dealer by some person who is supposed to be the owner. The best place to select for looking

over used cars is the salesroom of some reputable dealer in the automobile section of the city. If you are interested in a used Hudson, go to the Hudson dealer; in a Hupmobile, go to the dealer in that car. In this way you are sure at least of getting a car that has been put in shape properly and not "jobbed up" for a sale. Often, however, a dealer will have cars of other makes in his shop, and naturally so, because all sales are not to previous owners of his car. It is usual for a dealer to give the exterior of a car the best appearance possible so that it will strike the fancy of the buyer, especially if his wife is along. Good external appearance is, of course, essential, but for the time being should be 'neglected. The chassis should be gone over, and if found satisfactory then atention may be devoted to the condition of the upholstery, the top, curtains, paint, and other items. These are matters which are not important in the running of a car. A good body won't keep a car running.

It is a most difficult matter to tell by a mere drive around the block whether the car is in perfect condition, especially if the street is smooth. Rattles and squeaks caused by loose

parts are noticed only on rough roads. Hence it is wise when trying out a car to take it first slowly and then at a fair rate over a bad piece of road. Never take a dealer's word that "that can be fixed up in a jiffy." Do not take a car unless it is "fixed up," and to your satisfaction. Never take a car with certain parts of the equipment missing. which "will be sent to you just as soon as they come." Half the time they never come or are delayed until the end of the season.

In order to determine the fitness of the used car you will have to drive it yourself to see whether there is undue play in the power transmission system. A bad clutch or a worn transmission can be "overcome" by good driving, and the demonstrators usually are good at covering up such spots. Brakes should be tested so that a relining job is not nec-

THE EXPERTS SAY-

The tube should be rolled flat, with soft cloth between the layers; a strip of cotton fiannel rolled up with the tube is excellent. The roll should then be placed in a thick cloth bag with the stem protruding and the mouth of the bag be tied around the stem. It is a good plan to put talcum powder in the

Few owners pay the attention to the ball bearings that these latter deserve. They usually wait until the garage man calls attention to the injury done by breakage. At least once in six months ball bearings should be inspected, the rough or worn balls replaced with perfect ones, and the ball run filled with graphite grease.

Clutch spinning is often due to excessive friction in the spring thrust bearing, though sometimes faulty alignment of the flywheel and clutch cone prevent the engaging surfaces from entirely clearing each other. A bent clutch

Does your starter turn your engine over fast enough to start your car?

Does your generator charge and keep your battery up?

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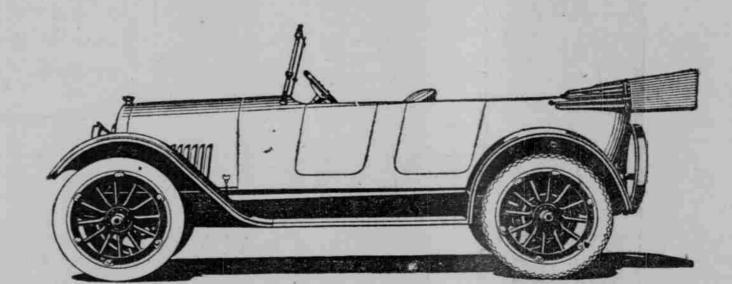
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